



# ***Potential Tahoe Biomass Facility Update***

Presented to  
**NORTH TAHOE REGIONAL  
ADVISORY COUNCIL**

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***Kings Beach California***

***Brett Storey, Placer County Biomass Program Manager  
(530) 745-3011 [bstorey@placer.ca.gov](mailto:bstorey@placer.ca.gov)***



# ***Placer County Biomass Program***

***Needs*** - Lower fire danger, reduce air pollution from burning, create green energy, create future economic growth

***Guidance*** - Board Of Supervisors created a Biomass Policy Team & adopted a Strategic Plan for Wildfire Protection and Biomass Utilization

***Implementation*** - Programs developed and continuing via county & federal funding & grants



and partnerships





## ***On-Going Programs***



Community biomass collection



Chipping



Regional biomass collection



Before

***Contracts in place  
Material being  
reclaimed  
Air Pollution saved  
Forest Health  
increased***

USFS NF biomass removal



After

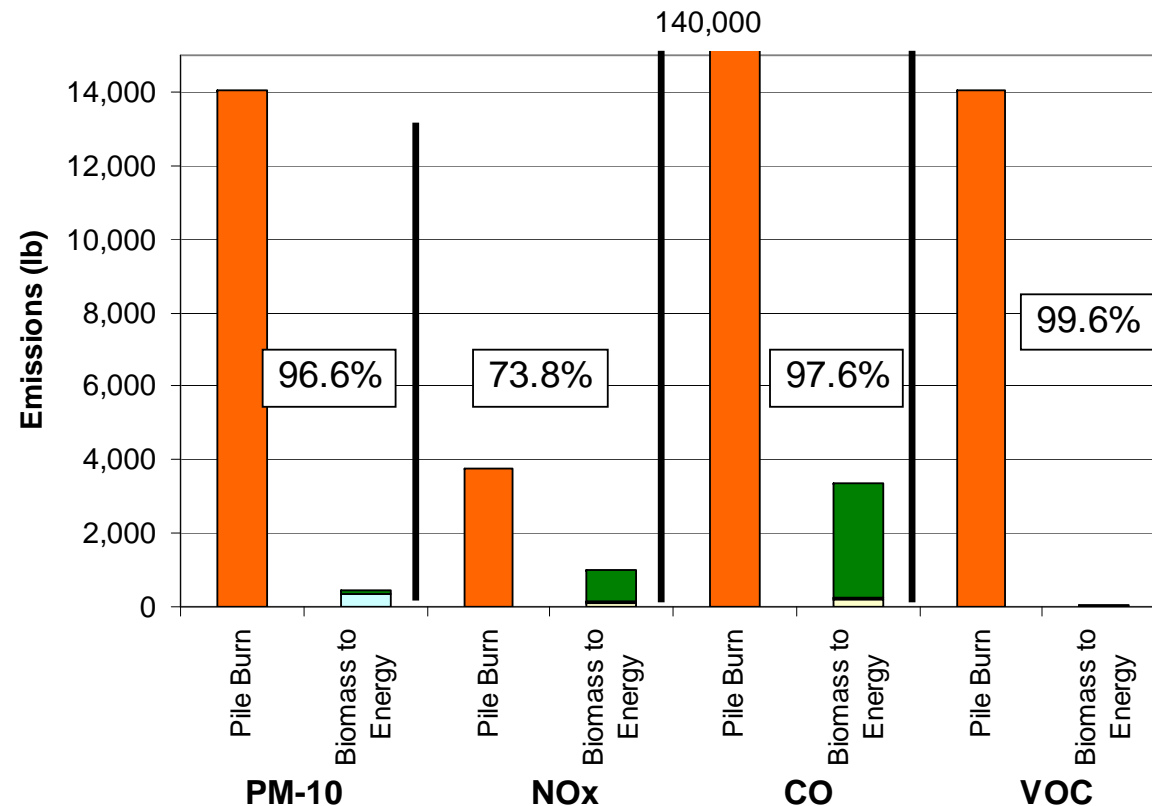




## ***Regional Biomass Collection Project Results***

- 2008 Regional Biomass removal – Tahoe Basin
  - Biomass processed and transported (Loyalton and Carson City)
    - 330 BDT
  - Biomass chipped and used for ski slope stabilization
    - 229 BDT

PM10 -- 7 tons, 97%  
CO -- 68 tons, 98%  
NOx – 1.5 tons, 74%  
VOC – 7 tons, 99%





## ***Potential Tahoe Basin Biomass Facility***

***What:*** 1 – 3 MW wood to energy producing facility (including electricity & heat)  
80' X 80' 2-story building

***When:*** Facility could be operational by winter 2012/13

***Where:*** Kings Beach prime location, others considered



***Why:*** Improve forest health, reduce fire danger, remove waste, lower air pollution,  
provide public benefits

***Who:*** Public/Private partnership with NV Energy , USFS

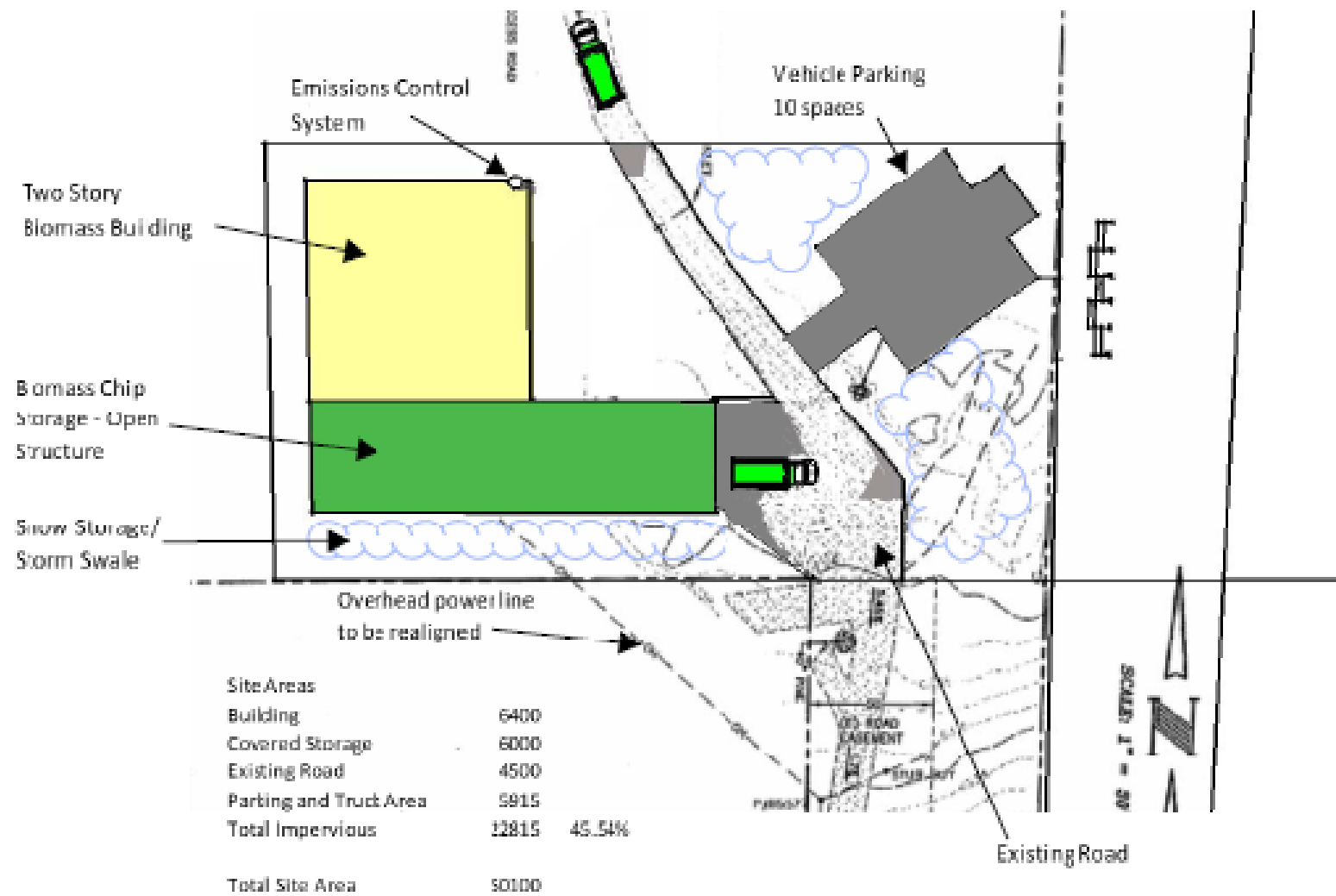
***How:*** County funding, federal grants,  
NV Energy investment

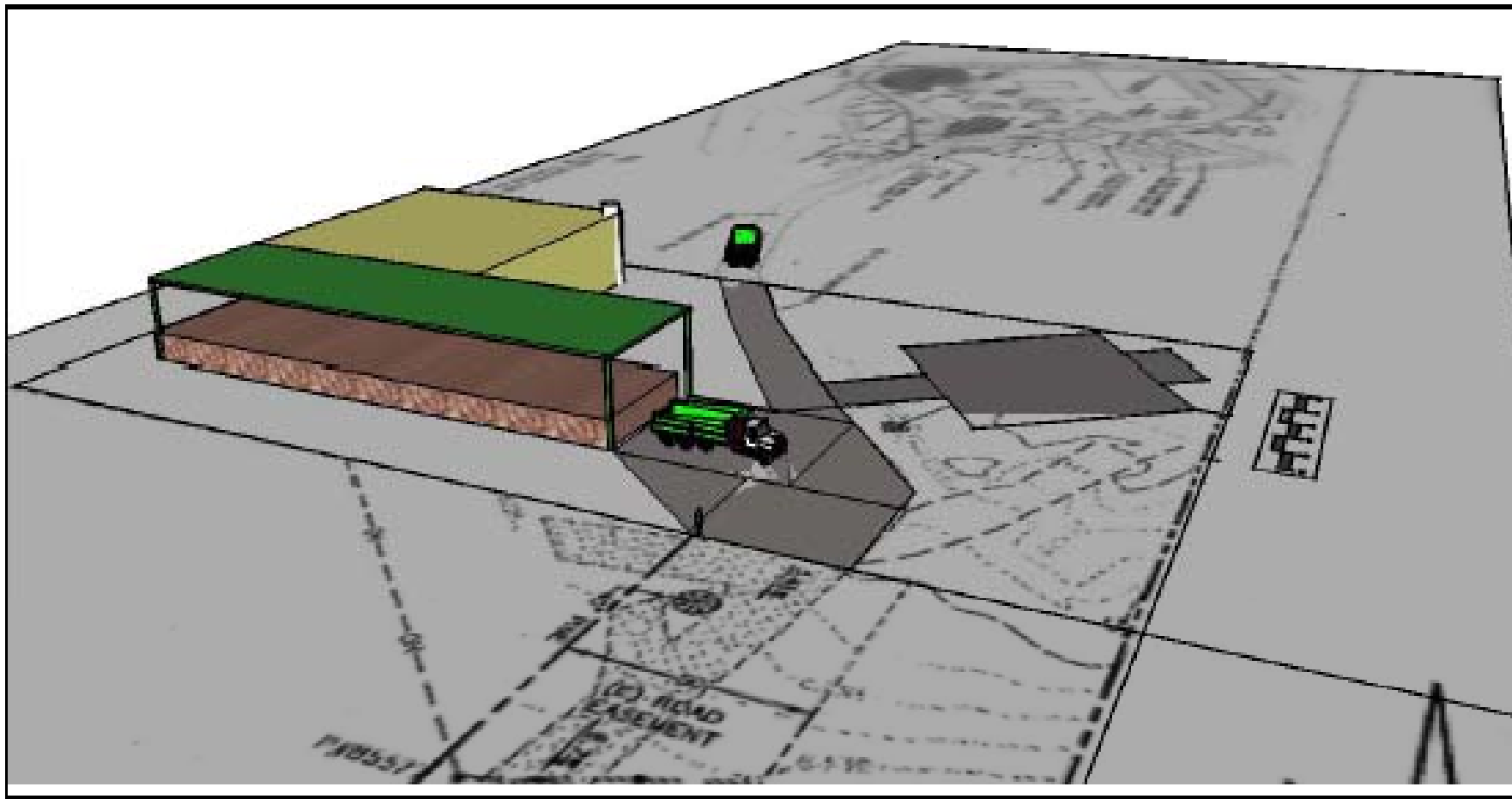




# ***Potential Tahoe Basin Biomass Facility Kings Beach Site***





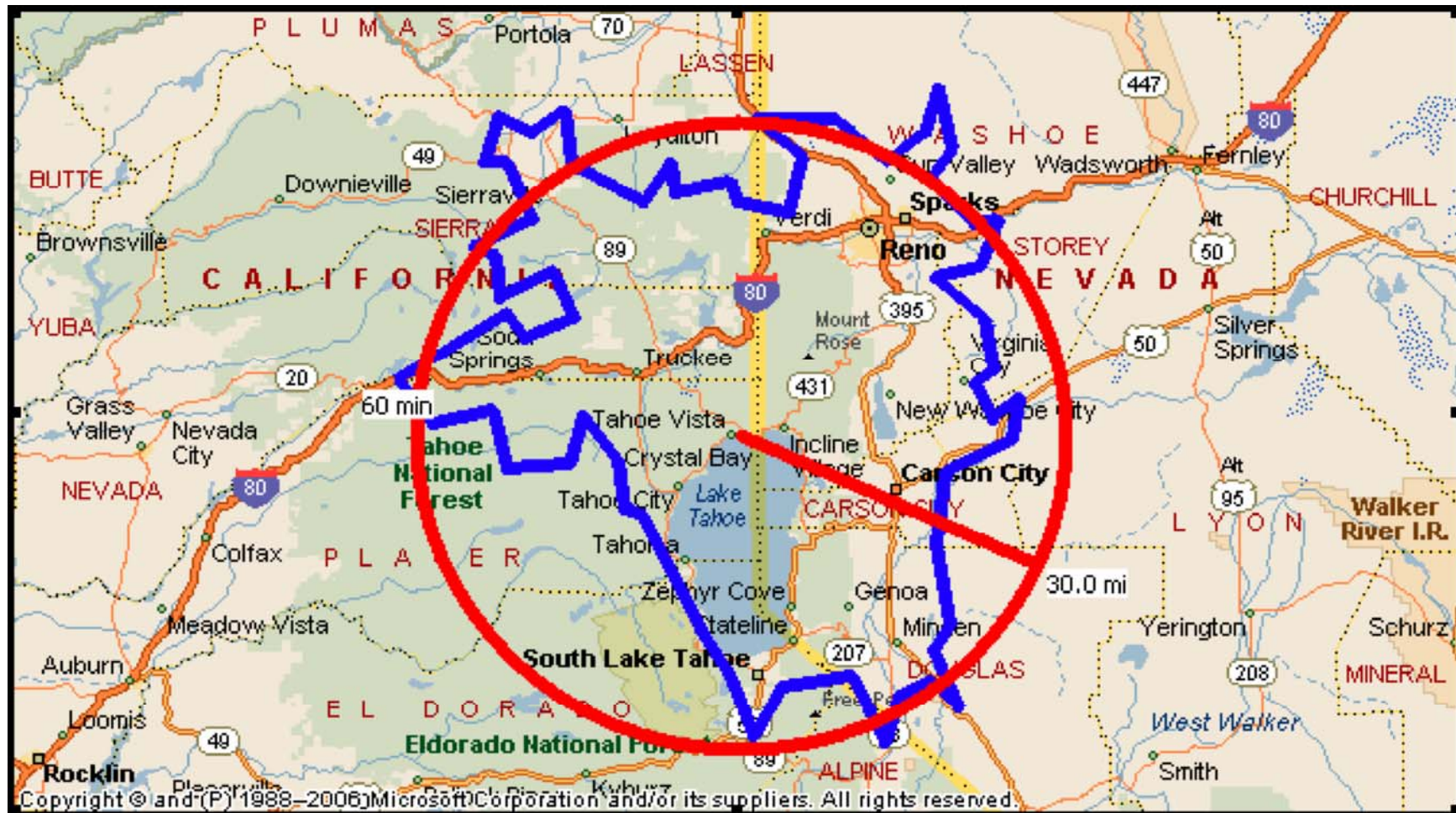






# ***Potential Tahoe Basin Biomass Facility***

1 Hour Drivetime/30 Mile Radius





# ***Potential Tahoe Basin Biomass Facility***

## **Development Schedule**

- Air/Water emissions and carbon credits/emission offsets study –9/10
- Business Plan – jointly developed by NV Energy & PC - Plan 12/10
- Logistics & fuel procurement – Plan 12/10
- Energy economics analysis – jointly developed - Plan 12/10
- Project Planning, Land Use & Environmental - 2010 through 2011
- New Source Review permit issuance 3/11
- Environmental Review complete 3/11
- Agencies approval 9/11
- Biomass to Energy technology firm selection– **9/11**
- Design review etc – 5/12
- Construction & check out – 8/12
- Operational -2012/13



# ***Potential Tahoe Basin Biomass Facility***

## **Project Funding to date**

- 2007 - The U.S Forest Service and Placer County funded a preliminary technical feasibility assessment for a biomass energy facility in the Lake Tahoe Basin - \$75K
- 2008 - Placer County received Congressionally-directed funding (Congressman Doolittle) to move this facility concept through the development phase -\$650K
- 2009/10 - Placer County has recently been awarded additional funds (Senator Feinstein) to assist in the construction of the biomass utilization facility - \$1.5M and \$1M requiring matching funds
- Placer County is also contributing significant project support
- NV Energy private partner to contribute remaining funding



# ***Potential Tahoe Basin Biomass Facility***

## ***Frequently Asked Questions***

**Why does it make sense to build a renewable biomass energy facility in the Lake Tahoe Basin?**

**Why are we proposing opening a facility in Lake Tahoe when others are closing in California?**

**What is the size (footprint) of the proposed renewable biomass energy facility?**

**What will the public see when they look at the facility?**

**What is the noise impact of the facility?**

**What about lighting on the facility?**

**What about the facility starting a forest fire from the facility of on-site wood chips?**

**What about truck traffic and routes?**

**What air pollution issues does the biomass facility present?**

**How does this project help me lower my carbon footprint?**

**How many jobs will this project create?**

**Do the local Fire Agencies believe this is a good project?**

**Do the local Air Pollution Control Agencies believe this is a good project?**

**What do conservation-based stakeholders think of biomass facilities and this facility in particular?**

**What public process will be convened to ensure this project meets with all groups' interests?**





## Questions/Comments

*Website under construction*

<http://www.placer.ca.gov/Departments/CommunityDevelopment/Planning/Biomass.aspx>

